Access Control
Solutions

RISCO
G R O U P

Creating Security Solutions.
With Care.

r i s c o g r o u p . c o m

Highlights

RISCO Group's range of Access Control solutions ensures complete project flexibility, providing ideal solutions for every type of installation. Utilizing the latest technologies, RISCO Group offers the most advanced management and configuration modules with sophisticated network communications.

RISCO Group's Access Control systems are specially designed for easy installation, easy operation and 100% reliability. These systems are used in banks, universities, institutional, industrial and commercial establishments in hundreds of locations around the world.

Many years of experience designing systems for the Access Control industry plus a comprehensive list of benefits are indicative of the reasons why RISCO Group offers one of the best suites of Access Control solutions on the market today.

System & Capacity

The system is comprised of a variety of hardware and software modules. The capacity of the system is extensive: **supporting up to 22,000 cards per controller, a virtually unlimited number of users, up to 4,000 doors and a 2,500 event buffer per controller. Capable of handling hundreds of thousands of events per day.** The architecture enables scalable expansion from a single door to a large network of doors, all **using identical hardware modules allowing for site growth without expensive upgrades.**

Multi-Site Support and Filtering

Access management of geographically distributed multi-site corporations or multi-company office buildings with shared hardware is carried out with one central database and with a single employee card. **The database administrator can determine per-site or per-company exactly what data may be edited or viewed and by whom.** Users can be added and deleted by local company access managers who see only the specific doors, functions and menus specified in their access profile.

Any Cabling Topology

The system allows use of any cabling topology, whether it be bus (loop or star) IP or any combination. This enables a cost effective installation solution and provides a special advantage for retrofits - **as any existing cabling in the building can be used saving time and rewiring costs.**

Distributed Intelligence

The system is designed in accordance with the **principle of distributed intelligence**, in order to provide the highest reliability. Distributed intelligence means that the Hardware **Controllers do not have to query any central PC or concentrator in order to authorize opening of a door.** Passing an authorized badge through the reader results in an **immediate** command to open the door, regardless of the availability or the load on the network or the central PC.

Plug & Play

The system's architecture separates hardware and software allowing the Installer to **verify hardware communication and operation with no need for a PC.** The system's default settings enable **opening doors from day one without any configuration.**

Fully Integrated Biometrics

The system supports any type of biometric systems (iris, fingerprint, hand recognition etc.). **It has full integration with the Sagem finger print protocol line allowing to enroll fingerprints and to send them to the biometric reader** using a unique efficient user interface.

Real Time Communication with Customer Processes

The system's architecture provides the possibility of **Real-Time communication with customer's business process systems and import from the employee database.**

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Zone Management, Flow Control and Crisis Mode

Zone Management and Flow Control allow regulating access through different doors at different times. The system is also Crisis Mode compliant meeting European and American standards requirements (ISPS, DEFCON, VIGIPIRAT).
RISCO Group's Access Control is P4 laboratory compliant allowing for only authorized personnel to access places containing dangerous substances.

Card validation exception handling

The user has **ultimate flexibility to add and authorize exceptions for temporary employees, visitors, contractors,** etc. This need arises when receptionists, for example, have to issue or grant card access rights that where not foreseen in the access groups.

Extensive Tool Box

Full range of tools enabling the **integrator to adapt the system according to customer requirements.**
These tools allow:
- To tailor the user interface to each user's access profile
- Send the Access Control events in real time to external systems or software programs
- Programming the system using the internal Macro language to manage customer specific situations and required behaviour
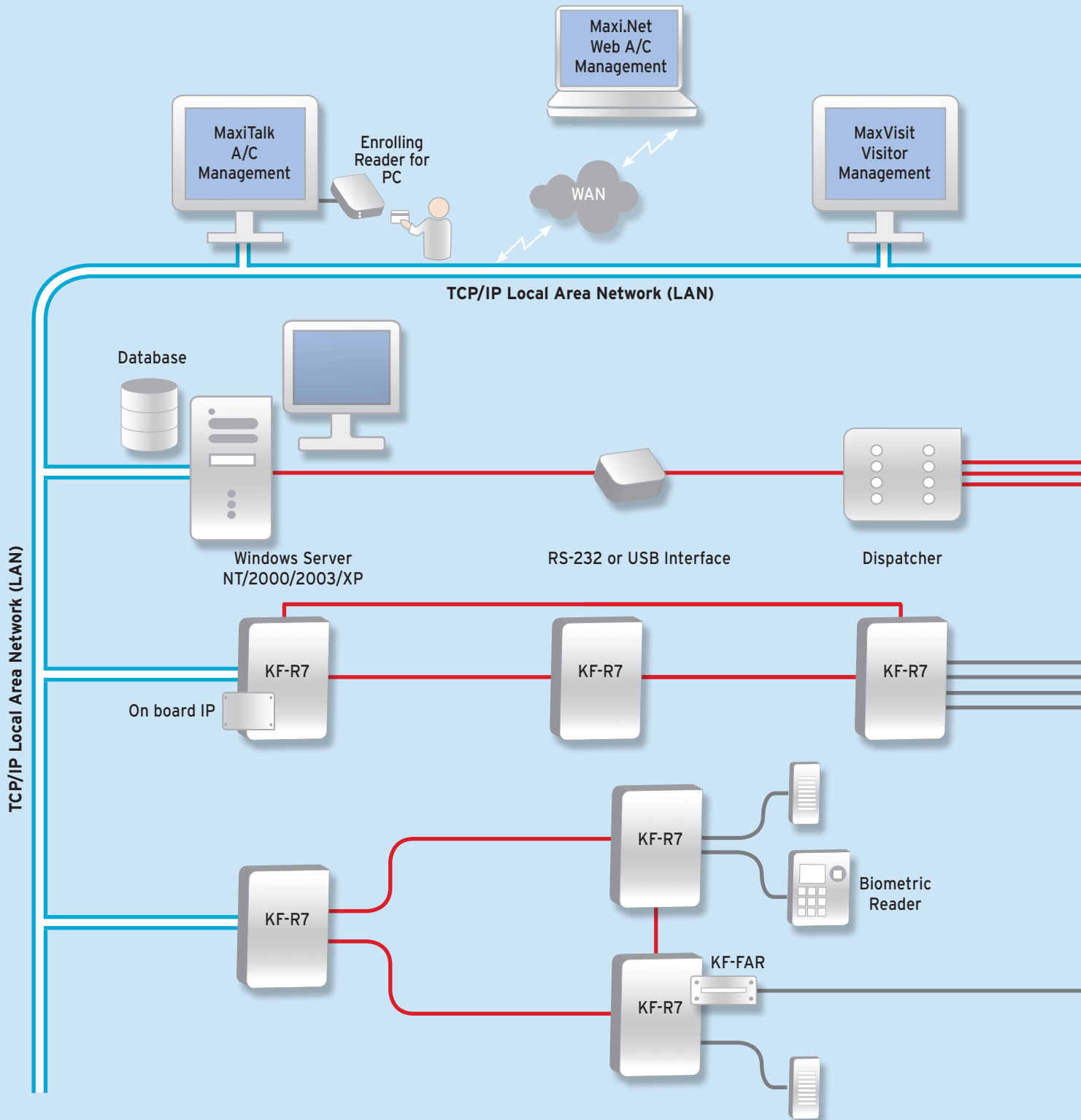
Information Technology Friendly

The **Network bandwidth usage of the system is very low:** approximately 50 bytes per event and 40 bytes per card modification.
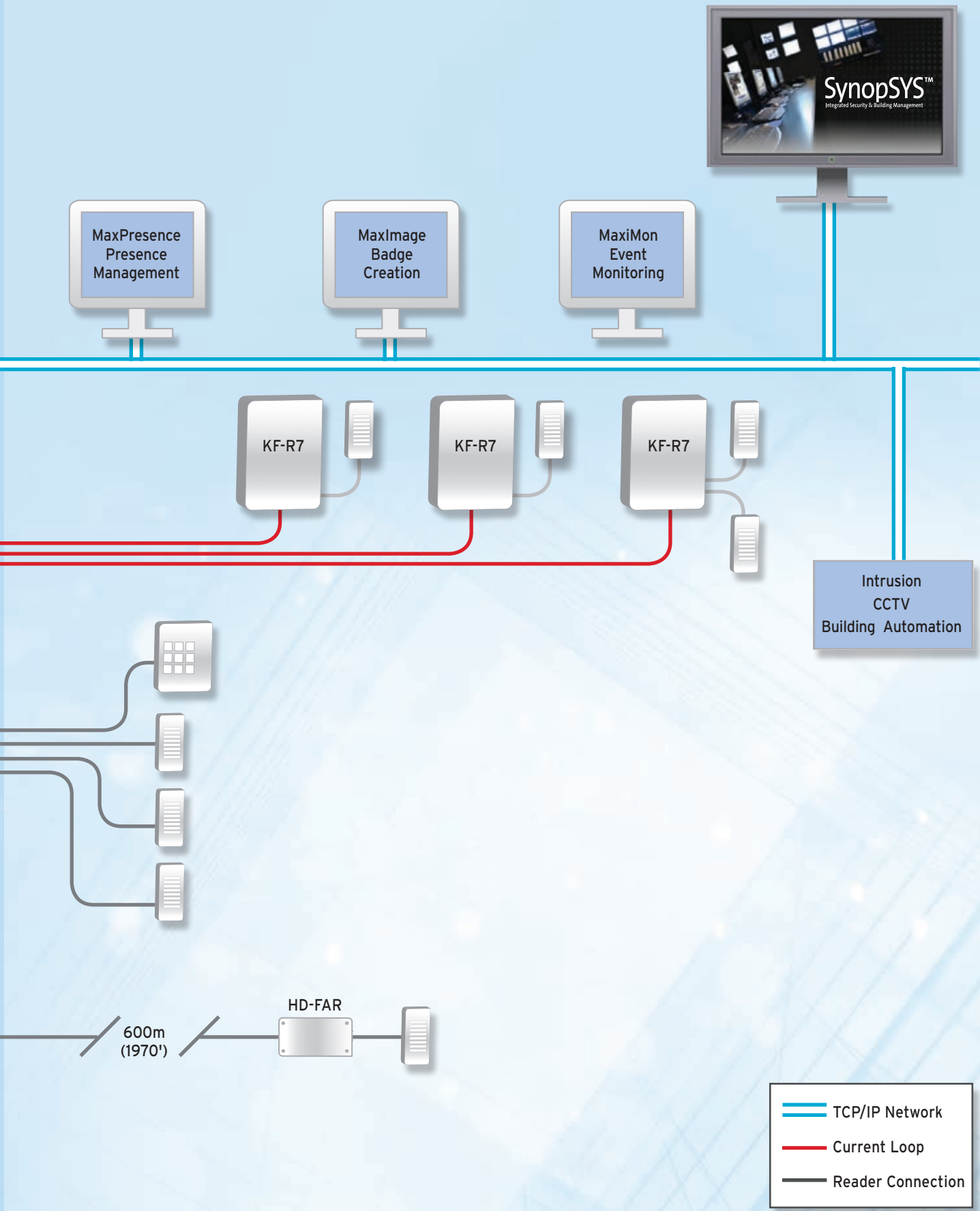The system database can be either Oracle or Faircom. Planned database capability should be 1 GB plus 200 bytes per event. **The database access is open:** users can use ODBC (Oracle or Faircom), and under Oracle direct access in read-only mode is available using SQL.

Installed in hundreds of locations around the world...

RISCO Group's Access Control solutions are used every day by hundreds of thousands of people around the world in government complexes, industrial sites, production facilities, financial institutions, high security laboratories, hospitals, museums, universities and more.

System Architecture

Maxi.Net
Web A/C
Management

WAN

MaxiTalk
A/C
Management

Enrolling
Reader for
PC

MaxVisit
Visitor
Management

TCP/IP Local Area Network (LAN)

Database

Windows Server
NT/2000/2003/XP

RS-232 or USB Interface

Dispatcher

TCP/IP Local Area Network (LAN)

KF-R7

On board IP

KF-R7

KF-R7

KF-R7

KF-R7

Biometric
Reader

KF-R7

KF-FAR

KF-R7

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SynopSYS™
Integrated Security & Building Management

MaxPresence
Presence
Management

MaxImage
Badge
Creation

MaxiMon
Event
Monitoring

KF-R7

KF-R7

KF-R7

Intrusion
CCTV
Building Automation

HD-FAR

600m
(1970')

TCP/IP Network

Current Loop

Reader Connection

Software

MaxiTalk

MaxiTalk is the ultimate Access Control management tool, with capability to manage huge installations together with RISCO Group's Access Control hardware.

MaxiTalk manages access authorization and presence by zone, providing a secure working environment for employees and protecting clients, suppliers, visitors, equipment and data. MaxiTalk is ideal for the simplest applications as well as for the most complex ones.

Main Features and Benefits:

- Advanced Access Control:
  - Control access at doorways, turnstiles, rotary doors, lifts, gates etc.
  - Global Anti-passback /Anti-timeback
  - Crisis management (Vigipirat, Defcon, ISPS)
  - Zone and time range management
  - Control presence and locate individuals
  - User friendly handling of access authorization exceptions
- Manages up to 22,000 cards per controller, up to 4,000 doors and supports 35 Card/Reader formats
- Supports a virtually unlimited number of people

- Management of multiple sites using a central database
- Secure access to information - controlled per individual user
- Full biometric integration (with Sagem)
- Integration with building management software
- Technical events (hardware failure, low batteries, network communication problem)
- Multilingual
- Integrator tools
- Integration with MaxVisit, MaxPresence and Maxi.Net

ACMTALK1000A	MaxiTalk single door license - up to 4 doors
ACMTALKPL10A	MaxiTalk extra door license - above 5 doors
ACMTALKUL00A	MaxiTalk unlimited door license - above 63 doors

ACMTALKXU00A	MaxiTalk additional simultaneous user (seat)
ACMACRO00000A	Macro-instructions
ACMGZONE000A	Zone and Area management

Maxi.Net

Access Control management from a web browser interface

Maxi.Net allows users to manage the access control features from a web browser. Maxi.Net has advanced filtering capabilities specifying who a user can see and which elements can be modified or assigned.

Main Features and Benefits:

- Add and remove users and cards
- Configure reader groups, readers and calendars
- Manage doors on planned time and specify modes for free access, lock/unlock and a control mode
- Direct event log requests using user friendly interface
- Microsoft Internet Explorer and FireFox compatible
- Multilingual

ACMNET00000A	Maxi.Net software package

MaxVisit

MaxVisit is a software package for receiving and managing visitors. Among other things, it enables you to schedule visits, to identify visitors and assign them a valid badge for the duration of their visit, and to display the visit log for each person.

MaxVisit offers complete integration with our wide range of Access Control equipment and software.

Main Features and Benefits:

- Visitor management:
  - Visitor identification
  - Visitor's history records
  - Visit planning (manages multiple entrances for large sites)
  - Print of a batch of cards
- Display visits planned for current day
- Assign "visitor badges" independently or in combination with MaxiTalk
- Single click actions - open door, set off alarm, dial phone number and send email
- Multilingual
- Integration with MaxiTalk, Maxi.Net, MaxImage

ACMVISIT000A	MaxVisit software package
ACMVISITXU0A	MaxVisit additional simultaneous user (seat)

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MaxPresence

MaxPresence is a software package for viewing presence and absence of employees by zones. MaxPresence displays presence textually and graphically and enables full customization of the information displayed. MaxPresence is the ideal tool for a receptionist to locate employees and visitors in the company.

Main Features and Benefits:
- Graphic display of presence or absence for each person
- Filtering of information displayed per user
- Sorts individuals by name, service, zone and site
- Visual alarm when a person arrives on site or moves to a different zone
- Advanced search tool
- Last event for the selected person
- Single click actions – open door, set off alarm, dial phone number and send email
- Customize interface settings for each user
- Multilingual

ACMPRESO00OA	MaxPresence software package
ACMPRESXU00A	MaxPresence additional simultaneous user (seat)

MaxImage

Badge Personalization

MaxImage allows customization and printing of cards in a specific layout, giving your cards a professional look. MaxImage is easy to use and quick to print with.

ACMIMAGE000A	MaxImage Badge Personalization
ACMIMAGEXU0A	MaxImage additional simultaneous user (seat)

MaxiMon*

MaxiMon is a simple package that shows access control, alarm and additional events occurring in real-time. The events, that can be associated with specific sounds and colors, are saved and can be printed out.

ACMMON0000A	MaxiMon graphical Monitoring package
ACMMONXU000A	MaxiMon additional simultaneous user (seat)

MaxiBGTK*

MaxiBGTK is a background tasking application that enables and controls communication between RISCO Group's Access Control software modules, the database and the hardware modules.

*Complimentary software package

Hardware

KF-R7

The KF-R7 is an electronic controller for managing one to four doors, shutters, barriers or turnstiles. The KF-R7 has all the information needed to manage the doors independently in its memory. Therefore, the KF-R7 considerably increases reliability of the Access Control system as any disruption of communication or power does not interfere with controller operation.

- 1 to 4 doors or 1 to 2 turnstiles
- 4 relays, 4 readers and 8 inputs (inputs protected)
- Communication bypass relay guarantees network integrity upon power failure
- Manages up to 22,000 cards and 2,500 events per controller
- Embedded unique controller address allowing event buffer Plug and Play functionality
- LEDs (communication, watchdog) enable visual verification of operation without connection to the software
- Secured PC interface (USB, RS232, TCP/IP)
- Protected inputs and communication lines
- 220V and 12V backup battery monitoring and event reporting
- Additional protected power source (12V or 5V) for readers and door strikes
- Supports multiple reader protocols (Proximity, Magnetic Strips, Mifare, i-Class, etc.)
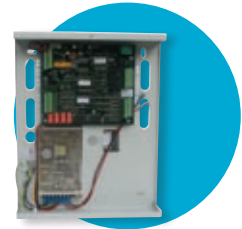
ACKFR71B3OOA	KF-R7 Access Controller for 1 door with Box and Power Supply (can support up to 4 doors with license extensions)
ACKFR71PCB0A	KF-R7 Access Controller for 1 door PCB only (can support up to 4 doors with license extensions)
ACKFR7EXT1PA	KF-R7 License Extension of 1 door (up to 3 license extensions can be added to a basic KF-R7)

KF-24/24 Input/Output

The KF-24/24 Input/Output is an electronic device for control and capture of information and for managing different types of alarms.

- 24 protected inputs and 24 outputs
- DIP-switch selectable options
- Communication via TCP/IP or protected current loop
- External tamper switch option
- Plug-on terminal block connections
- LEDs (communication, watchdog) enable visual verification of operation without connection to the software
- Secured PC interface (USB, RS232, TCP/IP)
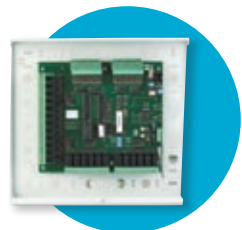
ACKF2424BOXA	KF-24/24 Input/Output in Box with Power Supply
ACKF2424PCBA	KF-24/24 PCB Only

KF-Lift

The KF-Lift manages lift access in 12-floor segments. Using it in higher buildings simply requires linking together multiple 12-floor modules. Linked to the circuitry of the lift, the KF-Lift reader controls user access to each floor completely independently.

- 12 floors per KF-Lift reader
- 2 relays per floor for fire bypass
- Communication via TCP/IP or protected current loop
- Communication bypass relay guarantees network integrity upon power failure
- Manages up to 15,000 cards
- LEDs (communication, watchdog) enable visual verification of operation without connection to the software
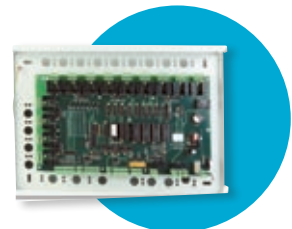
ACKFLIFTBOXA	KF-Lift Controller in Box (does not include Power Supply)
ACKFLIFTPCBA	KF-Lift Controller PCB Only

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Controller Specifications

	KF-R7	KF-24/24	KF-Lift
Power Input	13.8V ± 5%		
Consumption	Idle: 300mA (at 13.8 VDC) without reader Max: 350mA (at 13.8 VDC) without reader	Idle: 200mA (at 13.8 VDC) Max: 350mA (at 13.8 VDC)	Idle: 500mA (at 13.8 VDC) Max: 570mA (at 13.8 VDC)
Fuse	1600mA	800mA	1600mA
Dimension / Weight PCB only	203x173mm/330g 8x7in/1lb	265x225mm/680g 11x9in/2lb	400x220mm/870g 16x9in/2lb
Dimension / Weight With box	380x315x85mm/4.9Kg 15x13x4in/11lb	385x344x60mm/3.6Kg 16x14x3in/8lb	487x337x60mm/6Kg 20x13x3in/14lb
	Power Supply: 100-240V input, 13.8V 4A output		-
Memory	32KB basic RAM + 512KB extension, battery protected	32KB RAM battery protected	32KB RAM battery protected Extendable to 4x128KB, battery protected
Inputs	Capacity to link 4 readers	24 inputs	Capacity to link 2 readers
	* TTL inputs for ISO format (clock & data) or Wiegand (D0,D1), configured by DIP-switch. 5 VDC or 12 VDC auxiliary outputs to supply reader Outputs for 2 LEDs per reader.		
Outputs	4 relays	24 relays	26 relays
NO and NC contacts	Available		
Isolation	4kV		
Nominal switching voltage	250VCA		
Maximal switching voltage	440VCA		
Maximum switching capacity	2kVA		
Rated current	8A		
Communication	Opto-coupled current loop with RISCO Group Access Control hardware and software on 4 wires (R+,R-, T+,T-), maximum 600 meters between two active units. TCP/IP interface or RS232/USB (optional)		
Security	-	-	2 relays for each floor. First one: normal access control management. Second one: "fire security" bypass linked to the 3 "fire service" contacts.

Controller Accessories

TCP/IP Digi R7 Internal
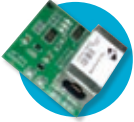
The TCP/IP Digi is a communication module that plugs into the KF-R7, enabling TCP/IP communication between the KF-R7 controller and MaxiBGTK application. It also serves as a gateway for all additional RISCO Group Access Control modules, connected on the R7 loop. The TCP/IP Digi R7 Internal can also be used with the KF-Lift and KF-24/24 Input/Output modules.
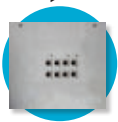
ACIPR7DIGINA	TCP/IP Digi R7 Internal

TCP/IP Lantronix R7 Internal

The TCP/IP Lantronix R7 Internal has identical functionality to the TCP/IP Digi R7 Internal.

| ACIPR7LANINA	TCP/IP Lantronix R7 Internal

Dispatcher

The Dispatcher is a connection hub for 8 Access Control current loops. It is an active element amplifying the signal to ensure maximum distance between controllers – ideally suited for star configuration cabling.

The Dispatcher enables controller loops to be brought into use or taken out of service in a simple manner with straightforward switches and is recommended for all installations with more than 4 controllers. Several Dispatchers can be linked together in order to manage a larger number of loops. The Dispatcher has one switch and 3 LEDs per communication line (on, receive, transmit), allowing easy identification of communication problem, by using the switch to isolate the "broken line".

ACD8B2A0000A	Dispatcher 8 Channels in Box with Power Supply

HD-FAR with Box
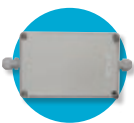
The HD-FAR with Box extends the distance between Controller and Reader up to 600m (1970') (Regular distance without extension is 50m [164'] for Proximity readers and 10m [33'] for Magnetic Reader Technology). The HD-FAR with Box is installed close to the reader and is used in conjunction with a KF-FAR located in the KF-R7.
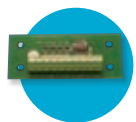
ACHDFARBOX0A	HD-FAR with Box

HD-FAR PCB

The HD-FAR PCB is useful when it can be installed inside the power supply of the reader.

ACHDFARPCB0A	HD-FAR PCB

KF-FAR PCB

The KF-FAR PCB is installed in the KF-R7 Box, and works in conjunction with the HD-FAR, for extending the distance between the Reader and the Controller up to 600m (1970').

| ACKFFARPCB0A	KF-FAR PCB

Protocol Converter

The Protocol Converter is sometimes required when using existing older readers on installations when the customer wishes to keep existing cards. It converts the signal into a format that the KF-R7 or KF-Lift recognize. One Protocol Converter is required for each reader.

ACKFCONVBOXA	Protocol Converter with Box
ACKFCONVPCBA	Protocol Converter PCB Only

Enrolling Reader for PC
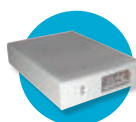
The Enrolling Reader is used to easily enroll cards in the system and is mandatory when numbers are not printed on the cards. When a visitor exits, all the card access rights can be automatically cancelled by presenting the card to the Enrolling Reader at the reception desk.

ACREN232000A	Enrolling Reader for PC

PC-USB / PC-RS232 Interfaces

The PC-USB / PC-RS232 interfaces enable communication between a PC-USB or RS232 port to one or more of RISCO Group's Access Controllers located on a loop. Each interface added creates an additional loop of controllers thus extending the total number of devices managed by MaxiTalk.

ACIPCUSBINTA	PC-USB Interface
ACIPCRS2325A	PC-RS232 Interface

Communication Replacement KF-Xnet/R7

A service replacement part that plugs in Communication Replacement to the KF-R7 controller board. In case of lightning damage to the current loop communication componenets, the KF-Xnet allows their replacement without replacing the whole controller, saving costs and maintenance time.

ACIR7XNETP0A	Communication Replacement KF-Xnet/R7

Communication Replacement KF-Xnet/R7 with IP

Allows replacing damaged current loop communication components when using both current loop and TCP/IP communication. The card plugs onto the KF-R7 and the TCP/IP is plugged on top of it (double piggyback).

ACIR7XNETXTA	Communication Replacement KF-Xnet/R7 with IP

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SynopSYS™
Integrated Security & Building Management

The Access Control range is fully integrated with RISCO Group's SynopSYS Integrated Security & Building Management Software.

SynopSYS is a landmark development in integrated security and building management, providing simplified and completely integrated site management. Employing state-of-the-art technology, SynopSYS combines security, fire detection, video monitoring, access control, HVAC and other building automation systems into a single management system.

Access Control integration with SynpoSYS enables:

- Graphic display of all building's areas and doors
- Performing Access Control actions such as opening doors remotely
- Real-Time monitoring of all Access Control events
- Customizable triggering of actions when specific events occur, such as camera pop-up when unauthorized entry occurs, or pop-up of employee's photo when entering the premises.

Freedom of Communication

ProSYS.freeCom
Integrated Security Systems

ProSYS™ is a cutting edge security system that integrates intruder alarm, Access Control, wireless 868/433 MHz hybrid expansion and building automation.

With its comprehensive set of features, ProSYS™ offers unrivalled flexibility and extensive expansion capabilities. ProSYS™ accessories include Interactive Voice Module, Integrated Access Control (up to 16 doors), Addressable Bus Detectors, advanced TCP/IP communication for linking to local or remote networks and advanced GSM/GPRS modules.

ProSYS™ gives you the opportunity to combine Intrusion and Access Control in the same installation and offer your customers an integrated solution:

- As a stand alone system, ProSYS™ supports up to 128 alarm zones, 16 doors and 999 Access Control users.
- When connecting ProSYS™ to the SynopSYS™ Security and Building Management Software and to the MaxiTalk™ Access Control, it can support large installations with a virtually unlimited number of intruder zones, 4,000 doors and 22,000 Access Control users.
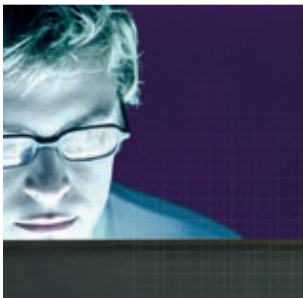
About RISCO Group

RISCO Group creates a comprehensive line of advanced integrated security solutions for the global security market. From cutting-edge software to high-performance wired and wireless systems, the company delivers exceptionally flexible end-to-end solution to meet any project challenge - from the site to the alarm receiving center.

Exceeding industry standards and customer expectations, RISCO Group's four divisions – Integration, Intrusion, Access Control and CCTV – provide integrated security, building management and IP/GSM Receiver software, sophisticated detector technologies, and IP-based security and access control systems – which can be found in commercial, industrial, institutional and residential installations around the world.

Care for Innovation
Deeply committed to providing innovative responses to the needs of its worldwide client base – RISCO Group develops powerful, dependable products based on the latest technologies and industry standards.

Care for Quality
The highest standards of quality and reliability are guaranteed by the company's ISO-9001-2000 certification in R&D, Engineering, Production, Sales and Service – as well as product approvals and conformance to security and environmental standards required by testing organizations in Europe, USA and Asia.

Care for Customers
The centrality of the customer is a cornerstone of the company's philosophy. RISCO Group's solutions are designed - first and foremost – with the needs of the customer in mind. Flexibility, ease of installation and use, and cost-effectiveness are built into every solution.

RISCO Group's customers are served by an established and experienced network of branches, subsidiaries, distributors and partners – backed by multi-lingual marketing and training materials – who sell and support RISCO Group's products in over 60 markets worldwide.

RISCO Group's proven technological capabilities, commitment to innovation, customer-centered designs and comprehensive range of integrated, unfailingly dependable solutions as well as its dedicated to responsive, personalized customer support have – for over 25 years – won the loyalty and respect of security professionals all over the world.

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